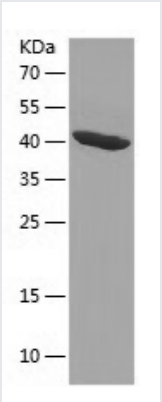
SCO2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	SCO2, Recombinant Protein
Full Product Name	Recombinant Human SCO2
Product Gene Name	SCO2 recombinant protein
Product Synonym Names	SCO1L; SCO2
Host	E Coli
Form/Format	Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose and 0.06% proclin, pH7.4
Purity/Purification	Greater than 80% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	29,810 Da
Sequence Positions	42-266
OMIM	604272
3D Structure	ModBase 3D Structure for O43819
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000 rpm for 1 minute, reconstitute at 200 ug/ml in sterile distilled water by gentle pipetting 2-3 times, don't vortex
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for SCO2 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for SCO2 recombinant protein	MBS7616278 is a recombinant protein targeting SCO2. Also known as Recombinant Human SCO2. Host: E Coli.
Other Notes	Small volumes of SCO2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of SCO2 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SCO2. It may not necessarily be applicable to this product.

NCBI GI #	281182716
NCBI GeneID	9997
NCBI Accession #	NP_001162580.1
UniProt Primary Accession #	O43819
UniProt Secondary Accession #	Q3T1B5; Q9UK87
UniProt Related Accession #	O43819
GenBank Nucleotide #	NM_001169109.1
NCBI Official Full Name	protein SCO2 homolog, mitochondrial
NCBI Official Synonym Full Names	SCO2 cytochrome c oxidase assembly protein
NCBI Official Symbol	SCO2
NCBI Official Synonym Symbols	MYP6; SCO1L; CEMCOX1
UniProt Protein Name	Protein SCO2 homolog, mitochondrial
Protein Family	Protein
UniProt Gene Name	SCO2
UniProt Entry Name	SCO2_HUMAN
NCBI Protein Information	protein SCO2 homolog, mitochondrial; SCO cytochrome oxidase deficient homolog 2
NCBI Summary for SCO2	Cytochrome c oxidase (COX) catalyzes the transfer of electrons from cytochrome c to molecular oxygen, which helps to maintain the proton gradient across the inner mitochondrial membrane that is necessary for aerobic ATP production. Human COX is a multimeric protein complex that requires several assembly factors; this gene encodes one of the COX assembly factors. The encoded protein is a metallochaperone that is involved in the biogenesis of cytochrome c oxidase subunit II. Mutations in this gene are associated with fatal infantile encephalocardiomyopathy and myopia 6. [provided by RefSeq, Oct 2014]

UniProt Comments for SCO2	SCO2: Acts as a copper chaperone, transporting copper to the Cu(A) site on the cytochrome c oxidase subunit II (COX2). Defects in SCO2 are the cause of fatal infantile cardioencephalomyopathy with cytochrome c oxidase deficiency (FIC). This disease is characterized by hypertrophic cardiomyopathy, lactic acidosis, and gliosis. Heart and skeletal muscle show reductions in cytochrome c oxidase (COX) activity, whereas liver and fibroblasts show mild COX deficiencies. Belongs to the SCO1/2 family. Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 22q13.33 Cellular Component: nucleoplasm; myofibril; mitochondrion; mitochondrial inner membrane Molecular Function: copper ion binding Biological Process: cellular copper ion homeostasis; eye development; in utero embryonic development; respiratory chain complex IV assembly; response to activity; copper ion transport; muscle system process Disease: Cardioencephalomyopathy, Fatal Infantile, Due To Cytochrome C Oxidase Deficiency 1; Myopia 6
Research Articles on SCO2	**1.** COX20 cooperates with SCO1 and SCO2 to mature COX2 and promote the assembly of cytochrome c oxidase.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/sco2/7616278